



Network

Multi-sensor

## PNM-C7083RVD

2MP x 2CH AI Multi-directional Camera



### Key Features

- Analytics events based on AI engine: Classified object (Person/Face/Vehicle/License plate)  
Attributes(vehicle type: Car/Bus/Truck/Motorcycle/Bicycle)  
Support BestShot
- WiseNR II, Auto prefer shutter control, WiseStreamIII, extremeWDR (120dB)
- Maximum 1920x1080 resolution
- Maximum 30fps/25fps@2MP
- Color: 0.035lux(F2.2, 1/30sec, 30IRE), 0 Lux (IR LED on)
- 3~6mm(2x) motorized varifocal, 75° tilt angle
- IR viewable length: IR 25m(82ft)
- TPM 2.0(FIPS 140-2 certified)
- IP66, NEMA4X, IK10

# PNM-C7083RVD

2MP x 2CH AI Multi-directional Camera



## Specifications

### Video

|                   |                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| Imaging Device    | 1/2.8" CMOS x 2CH                                                                                                   |
| Resolution        | 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x360, 320x240 |
| Max. Framerate    | H.265/H.264: 2MP Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 30fps/25fps(60Hz/50Hz)                                  |
| Min. Illumination | Color: 0.035lux(F2.2, 1/30sec, 30IRE)<br>BW: 0.0035lux(F2.2, 1/30sec, 30IRE), 0lux(IR LED on)                       |
| Video Out         | USB: micro USB Type B, 1280x720 for installation                                                                    |

### Lens

|                           |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| Focal Length (Zoom Ratio) | 3~6mm(2x) motorized varifocal                                          |
| Max. Aperture Ratio       | F2.2(Wide)~F3.1(Tele)                                                  |
| Angular Field of View     | H: 107(Wide)~56(Tele)<br>V: 57(Wide)~31(Tele)<br>D: 126(Wide)~64(Tele) |
| Min. Object Distance      | 0.5m(1.64ft)                                                           |
| Focus Control             | Simple focus                                                           |
| Lens Type                 | Fixed IRIS                                                             |

### Pan / Tilt / Rotate

|                           |                         |
|---------------------------|-------------------------|
| Pan / Tilt / Rotate Range | 0~355° / 0~78° / 0~180° |
|---------------------------|-------------------------|

### Operational

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Title             | Displayed up to 85 characters                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Day & Night              | Auto(ICR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Backlight Compensation   | BLC, WDR, SSDR                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Wide Dynamic Range       | extremeWDR(120dB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Digital Noise Reduction  | WiseNR II (Based on AI engine), SSNR V                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Motion Detection         | 8ea, 8point Polygonal zones                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Privacy Masking          | 6ea, 4point Quadrangle zones<br>- Color : Gray/Black/White                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gain Control             | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| White Balance            | ATW / AWC / Manual / Indoor / Outdoor                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| LDC                      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker (1/5~1/12,000sec)<br>Auto prefer shutter control(Based on AI engine)                                                                                                                                                                                                                                                                                                                                                                                    |
| Video Rotation           | Flip, Mirror, Hallway view (90°/270°) - Each channel separately                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Analytics                | Classified object type : Person/Face/Vehicle/License plate<br>Attributes : Vehicle(Type:car/bus/truck/motorcycle/bicycle)<br>Support Bestshot<br>Analytics events based on AI engine<br>- Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit)<br>Analytics events*<br>- Defocus detection, Motion detection, Tampering, Virtual area(Appear/Disappear)<br><br>* Support Audio detection, Sound classification via optional SPM-4210 I/O box |
| Alarm I/O                | * Support Alarm via optional SPM-4210 I/O box                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Alarm Triggers           | Analytics, Network disconnect, Alarm input via optional SPM-4210 I/O box                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                           |                                                                                                                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Alarm Events</b>       | When alarm trigger occurred<br>- File upload(image) : e-mail/FTP<br>- Notification : e-mail<br>- Recording : SD/SDHC/SDXC or NAS recording at event triggers<br>- Handover(PTZ preset, Send message by HTTP/HTTPS/TCP)<br>- * Alarm output via optional SPM-4210 I/O box |
| <b>Audio In</b>           | * Audio in via optional SPM-4210 I/O box                                                                                                                                                                                                                                 |
| <b>Audio Out</b>          | * Audio out via optional SPM-4210 I/O box                                                                                                                                                                                                                                |
| <b>IR Viewable Length</b> | 25m(82ft)                                                                                                                                                                                                                                                                |

## Network

|                                          |                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ethernet</b>                          | Metal shielded RJ-45 (10/100/1000BASE-T)                                                                                                                                                                                                                                                                                                                  |
| <b>Video Compression</b>                 | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                                                                                                                                                                                    |
| <b>Smart Codec</b>                       | Manual(5ea area), WiseStream II, WiseStream III(Based on AI engine)                                                                                                                                                                                                                                                                                       |
| <b>Bitrate Control</b>                   | H.264/H.265: CBR or VBR<br>MJPEG: VBR                                                                                                                                                                                                                                                                                                                     |
| <b>Streaming</b>                         | Unicast(10 users) / Multicast<br>5 profiles per channel                                                                                                                                                                                                                                                                                                   |
| <b>Protocol</b>                          | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP (TCP, UDP Unicast)                                                                                                                                               |
| <b>Security</b>                          | TPM 2.0 (FIPS 140-2 level 2)<br>HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access log<br>802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)<br>Device Certificate(Hanwha Techwin Root CA, pre-installed)<br>Secure by default certificate<br>Secure OS/Boot/Storage, Verify firmware forgery |
| <b>Application Programming Interface</b> | ONVIF Profile S/T<br>SUNAPI(HTTP API)<br>Open platform                                                                                                                                                                                                                                                                                                    |

## General

|                         |                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Webpage Language</b> | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian |
| <b>Edge Storage</b>     | Micro SD/SDHC/SDXC 1slot Max. 512GB                                                                                                                 |
| <b>Memory</b>           | 2GB RAM, 512MB Flash                                                                                                                                |

## Environmental & Electrical

|                                         |                                                                |
|-----------------------------------------|----------------------------------------------------------------|
| <b>Operating Temperature / Humidity</b> | -40°C~+55°C(-40°F ~ +131°F) / Less than 95% RH(Non-condensing) |
| <b>Storage Temperature / Humidity</b>   | -50°C~+60°C (-58°F~+140°F) / Less than 95% RH(Non-condensing)  |
| <b>Certification</b>                    | IP66/IP67, NEMA4X, IK10                                        |
| <b>Input Voltage</b>                    | PoE+(IEEE802.3at, Class4)                                      |
| <b>Power Consumption</b>                | PoE+: Max 20W, typical 15.5W                                   |

## Mechanical

|                                          |                                                     |
|------------------------------------------|-----------------------------------------------------|
| <b>Color / Material</b>                  | White / Aluminum<br>Hard-coated dome bubble         |
| <b>RAL Code</b>                          | RAL9003                                             |
| <b>Product Dimensions / Weight</b>       | 215(W)x135(D)x93.2(H)mm(8.46"x5.31"x3.67") / 1330g  |
| <b>Compatible Conduit hole / Gangbox</b> | 3/4" (M25)<br>single, double, 4" octagon, 4" square |
| <b>Hanging Mount (Dome)</b>              | SBP-215HMW                                          |

## Certifications & Standards

|            |                                                                                                                                                                                            |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EMC</b> | FCC 47 CFR 15 Subpart B Class A<br>ICES-3(A)/NMB-3(A)<br>CE/UKCA<br>- EN 55032 Class A, EN 50130-4<br>VCCI CISPR 32 Class A<br>RCM AS/NZS CISPR 32 Class A<br>KS C 9832 Class A, KS C 9835 |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Safety** UL 62368-1, CAN/CSA C22.2 NO. 62368-1  
IEC/EN 62471

**Environment** IEC/EN 63000  
IEC/EN 60529 IP66/67, IEC/EN 62262 IK10  
NEMA 250 type 4X

#### DORI (EN62676-4 standard)

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| <b>Detect (25PPM/ 8PPF)</b>      | Wide: 28.4m(93.22ft) / Tele: 72.2m(236.94ft) |
| <b>Observe (63PPM/ 19PPF)</b>    | Wide: 11.4m(37.29ft) / Tele: 28.9m(94.78ft)  |
| <b>Recognize (125PPM/ 38PPF)</b> | Wide: 5.7m(18.64ft) / Tele: 14.4m(47.39ft)   |
| <b>Identify (250PPM/ 76PPF)</b>  | Wide: 2.8m(9.32ft) / Tele: 7.2m(23.69ft)     |

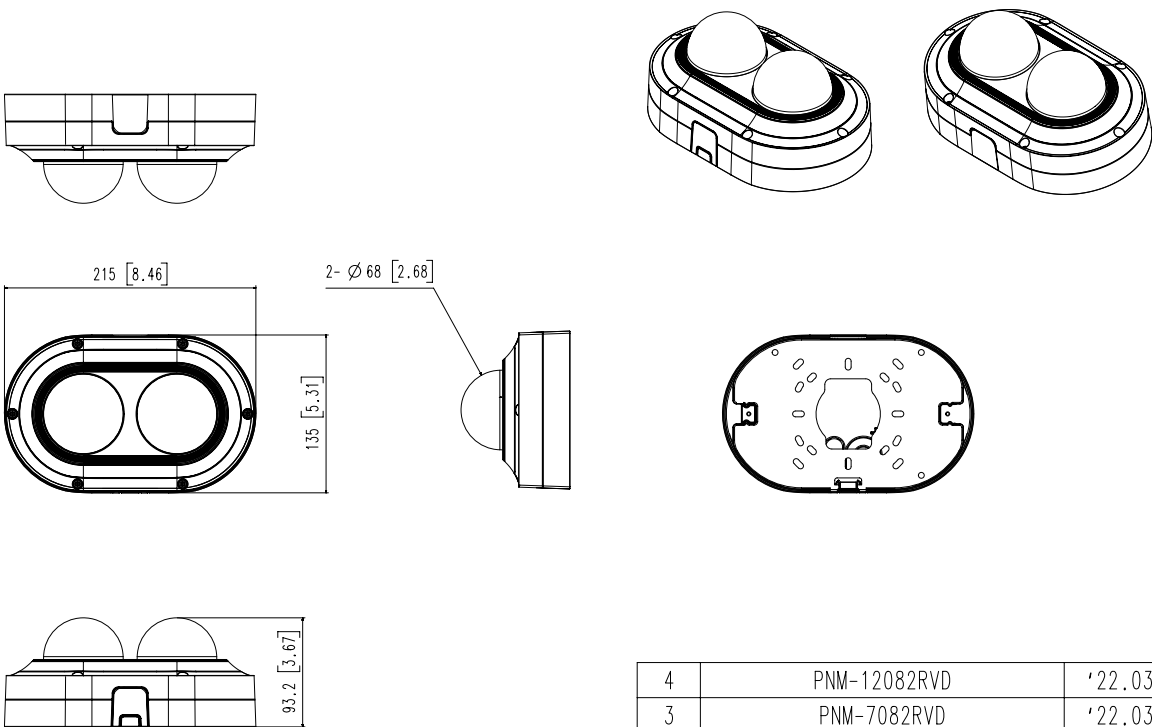
PNM-C7083RVD

2MP x 2CH AI Multi-directional Camera



CAD

Unit: mm [inch]



|     |               |           |
|-----|---------------|-----------|
| 4   | PNM-12082RVD  | '22.03.17 |
| 3   | PNM-7082RVD   | '22.03.17 |
| 2   | PNM-C12083RVD | '22.03.17 |
| 1   | PNM-C7083RVD  | '22.03.17 |
| No. | MODEL NAME    | DATE      |

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Unit: mm [inch] SCALE: 1/1 © Hanwha Techwin